

# Notice of Allowability

Application No.

09/994,599

Examiner

Dennis G. Bonshock

Applicant(s)

OGAMI ET AL.

Art Unit

2173

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's Amendment filed on 7-6-2007 and the Examiner amendment of 8-22-2007.

2. ☒ The allowed claim(s) is/are 1-27.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some\* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☒ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.

(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_

4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other \_\_\_\_\_.

***Oath/Declaration***

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

It does not identify the citizenship of each inventor.

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Reginald A. Ratliff on 8-22-2007.
3. The application has been amended as follows:

In claim 1, lines 15 and 16, replace "*the selection of a graphic element*"  
with     *—a selection of a graphic element —*.

In claim 10, lines 16 and 17, replace "*the selection of a graphic element*"  
with     *—a selection of a graphic element —*.

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In claim 19, lines 19 and 20, replace "*the selection of a graphic element*" with *—a selection of a graphic element —*.

### REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:
2. The examiner considered the Applicant's Amendment filed on 7-6-2007 and the Examiner amendment of 8-22-2007 and after updated search, no other prior art of record has taught that which was presented in the amended claims
3. Therefore, claims 1-27 are allowable.
4. Independent claim 1, 10, and 19, when considered as a whole, are allowable over the prior art of record (Nilsson, *Introduction to PSpice Manual for Electric Circuits Using OrCad Release 9.1*, Lawman et al., Patent #5,673,198, hereinafter Lawman, and Williams, Patent #6,631,508). Nilsson teaches on page 1, a program which provides an interface for the use in simulating electronic circuits, on pages 4 and 7, the process of selecting a component (place/part) and placing it in the schematic, the part having embedded functionality which is executed upon simulation/analysis; on pages 4 and 5, the user configuring the selected part; on pages 4 and 5, the user configuring the selected part, adding descriptive data and clicking ok to store this information in association with the part; on pages 4 and 5, double clicking on a part to see descriptive data; on pages 9-12, the system processing the descriptive data of the completed circuit and automatically generating an Interface (such as the net list, later displayed in Pspice

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A/D window (see page 7 and 11)), in response to the user input selecting the Pspice/Run menu option.

Nilsson is supplemented by Lawman who teaches a system for providing real time design of an electronic circuit via user input through a graphical user interface creating or modifying a logic circuit (see abstract and column 5, lines 30-42), similar to that of Nilsson, but further teaches that when a user adds a circuit element to the electronic circuit it causes corresponding elements to be added to the netlist, these take the form of API messages. After implementation, API messages are set back to the schematic entry system for display as feedback on the GUI (see column 5, lines 36-42 and column 6, lines 14-55).

Nilsson and Lawman are supplemented by Williams who teaches a system for designing a circuit through functional parts (see column 2, lines 56-65), similar to that of Nilsson and Lawman, but further teaches the creation of an API that defines the functional characteristics of the circuit and teaches allowing user manipulation of objects defined in the API (see column 2, line 56 through column 3, line 16).

5. However, specifically the prior art of record fails to clearly teach or support the limitations of *"generation of a new API", "that includes a interrupt activity framework for source programming and controlling an embedded function of a component of an electronic circuit through user interaction with the API, wherein source code is compiled and built in response to a selection of a graphical element"*.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis G. Bonshock whose telephone number is (571) 272-4047. The examiner can normally be reached on Monday - Friday, 6:30 a.m. - 4:00 p.m.

8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached on (571) 272-4048. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

8-22-07

dgb

**TADESSE HAILU**

***Patent Examiner***